



## **Sanders Latest PCS-Over-Cable Equipment Receives FCC Type Acceptance and UL Listing**

NASHUA, NH -- (September 29, 1998) -- The Federal Communications Commission has granted Type Acceptance to the latest version of a PCS-Over-Cable system, designed and developed by Sanders, a Lockheed Martin Company. The FCC approval covers all PCS frequency bands. At the same time, the equipment has been approved for listing by Underwriters Laboratories.

PCS-Over-Cable is a distributed antenna system that speeds the build-out of new wireless PCS networks and improves coverage and capacity of existing wireless networks. The system serves as an alternative or complement to traditional tower (macrocell) deployments.

The system, produced by Sanders, supports centralized Operations, Administration and Maintenance (OA&M) functionality that permits wireless service providers to control multiple PCS-Over-Cable systems from a central site. Additional enhancements of this latest version approved by the FCC improve the system's compatibility with CATV plants by providing wider frequency range, requiring less bandwidth and featuring lower noise levels.

With the FCC and UL approvals, Sanders' system is certified to have met authorized frequency transmission and safety standards for commercial sale. Additionally, PCS-Over-Cable components have been subjected by Sanders to extensive testing, including system performance evaluation under extreme environmental conditions: temperature, vibration, and shock.

The Sanders system distributes radio frequency (RF) signals generated in a Code Division Multiple Access (CDMA) network by using transceivers known as cable microcell integrators (CMIs). Installed on coaxial cable lines, a CMI provides the interface between a wireless PCS handset and the television cabling. The Sanders system also includes a Headend Interface Controller, which links the CATV plant headend and PCS CDMA base stations that connect to the wired telephone network. In addition to a coaxial cable application, the Sanders system can be adapted for fiber network implementations.

Sanders was advised of the FCC approval in August following successful completion of the tests. Type Acceptance is an equipment authorization indicating compliance with FCC technical standards for conducted and radiated radio frequency (RF) emissions as outlined in the FCC Code of Federal Regulations.

The system's Cable Microcell Integrator (CMI) and associated Headend equipment were also approved for listing by UL. This approval indicates compliance to the Underwriters Laboratories, Inc., standards for safety as related to installation, operation, and maintenance.

Sanders, an operating company of the Lockheed Martin Electronics Sector, is engaged in development, manufacture and sale of advanced electronic systems and products in a broad range of defense and commercial electronics markets. The company serves these markets through technologies that include wide-band radio, digital and analog communication systems, and very high speed real time digital signal processing.

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